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INDEX TO AMERICAN BOTANICAL LITERATURE (1910-1913)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Alway, F. J. Studies on the relation of the non-available water of the soil to the hygroscopic coefficient. Nebraska Agr. Exp. Sta. Research Bull. 3: 5-122. f. 1-37. 25 Je 1913.

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Ames, O. *Orchidaceae*: Illustrations and studies of the family *Orchidaceae*. The genus *Habenaria* in North America. Fascicle i-xiv + 1-288. pl. 60-79. Boston, 1910.

Ami, H. M. Preliminary lists of the organic remains occurring in the various geological formations comprised in the map of the Ottawa District, including formations in the provinces of Quebec and Ontario, along the Ottawa river. Ann. Rep. Canada Geol. Surv. II. 12: 51G-77G. D 1901.

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- Arthur, J. C., & Kern, F. D.** The rediscovery of *Peridermium pyri-forme* Peck. Science II. **38**: 311, 312. 29 Au 1913.
- Babcock, E. B.** A new variety of *Juglans californica* Watson. Science II. **38**: 89, 90. 18 Jl 1913.
- Bachmann, F. M.** The origin and development of the apothecium in *Collema pulposum* (Bernh.) Ach. Archiv Zellforschung **10**: 369-430. *pl.* 30-36. 8 Jl 1913.
- Becker, M. A.** The preservation of our wild flowers. Jour. N. Y. Bot. Gard. **11**: 169-175. Jl 1910.
- Berry, E. W.** A fossil flower from the Eocene. Proc. U. S. Nat. Mus. **45**: 261-263. *pl.* 21. 13 Je 1913.
- Black, C. A.** The morphology of *Riccia Frostii* Aust. Ann. Bot. **27**: 511-532. *pl.* 37, 38. Jl 1913.
- Chrysler, M. A.** The origin of the erect cells in the phloem of the *Abietineae*. Bot. Gaz. **56**: 36-50. *f.* 1-12. 16 Jl 1913.
- Cockerell, T. D. A.** A wine-red sunflower. Science II. **38**: 312, 313. 29 Au 1913.
- Collins, G. N.** Mendelian factors. Science II. **38**: 88, 89. 18 Jl 1913.
- Collins, G. N., & Kempton, J.** Inheritance of waxy endosperm in hybrids of Chinese maize. IV^e. Conférence Internat. Génétique, Paris 1911: 347-357. 1913.
- Cook, M. T., & Taubenhaus, J. J.** The relation of parasitic fungi to the contents of the cells of the host plants. (II. The toxicity of vegetable acids and the oxidizing enzyme). Delaware College Agr. Exp. Sta. Bull. 97: 3-53. *f.* 1-43. 1 Jl 1912.
- Copeland, E. B.** Some ferns of northeastern Mindanao. Leaflets Philip. Bot. **5**: 1679-1684. 28 Je 1913.
Includes *Angiopteris Elmeriana*, *Cyathea Warihon*, *C. dimorphotricha*, *C. cinerea*, *Dryopteris urdanetensis*, and *Athyrium propinquum*, spp. nov.
- Copp, G. G.** The protection of native plants. Jour. N. Y. Bot. Gard. **7**: 26-29. F 1906.
- Cosens, A.** A contribution to the morphology and biology of insect galls. Univ. Toronto Stud. Biol. **13**: 297-387. *pl.* 1-13. 1912.
- Crandall, C. S.** Mosquitoes pollinating orchids. Science II. **38**: 51. 11 Jl 1913.
- Darbishire, O. V.** Lichens collected during the 2d Norwegian Polar Expedition in 1898-1902. 1-68. *pl.* 1, 2. Kristiania 1909. Rep. Sec. Norw. Arct. Exped. "Fram" 1898-1902. No. 21.
- Davis, B. M.** Genetical studies on *Oenothera*—IV. The behavior of

- hybrids between *Oenothera biennis* and *O. grandiflora* in the second and third generations. *Am. Nat.* **47**: 449-476. *f.* 1-15. Au 1913; 547-571. *f.* 16, 17. S 1913.
- Davis, B. M.** The problem of the origin of *Oenothera Lamarckiana* De Vries. *New Phytologist* **12**: 233-241. *f.* 1. 26 Jl 1913.
- Eastham, J. W.** Useful wild plants of Canada. *Ottawa Nat.* **27**: 40-43. 12 Jl 1913.
- Ellis, M. M.** Seed production in *Yucca glauca*. *Bot. Gaz.* **56**: 72-78. 16 Jl 1913.
- Elmer, A. D. E.** A few new *Polygalaceae*. *Leaflets Philip. Bot.* **5**: 1671-1678. 21 Je 1913.
Includes *Securidaca atro-violacea*, *Xanthophyllum palawanensis*[e], *X. floriferum*, *X. multiramosum*, and *X. subglobosum*.
- Elmer, A. D. E.** New *Anonaceae*. *Leaflets Philip. Bot.* **5**: 1705-1750. 19 Jl 1913.
New species are described in *Unona* (4), *Uvaria* (4), *Xylopia* (1), *Saccopetalum* (1), *Polyalthia* (8), *Phacanthus* (1), *Oxymitra* (2), *Orophea* (3), *Mitrephora* (4), *Meiogyne* (2), *Goniothalamus* (3), *Deprananthus* (1), and *Artabotrys* (2).
- Elmer, A. D. E.** Palawan *Acanthaceae*. *Leaflets Philip. Bot.* **5**: 1685-1704. 3 Jl 1913.
Includes one new species each in *Strobilanthus*, *Eranthemum*, *Dicliptera*, *Ruellia*, *Hallieracantha*, and *Lepidagathis*; two new species in *Hypoestes* and three in *Gymnostachyum*.
- Evans, A. W.** Notes on North American *Hepaticae*. IV. *Bryologist* **16**: 49-55. *f.* 1-7. Jl 1913.
Includes *Cololejeunea setiloba* sp. nov.
- Fairchild, D.** The discovery of the chestnut bark disease in China. *Science* II. **38**: 297-299. 29 Au 1913.
- Fawcett, H. S.** Citrus scab (*Cladosporium Citri* Massee). *Univ. Florida Agr. Exp. Sta. Bull.* 109: 51-60. *f.* 24-31. My 1912.
- Fawcett, H. S.** Stem-end rot of Citrus fruits. (*Phomopsis* sp.). *Univ. Florida Agr. Exp. Sta. Bull.* 107: 3-21. *f.* 1-9. O 1911.
- Ferdinandsen, C.** Fungi terrestres from northeast Greenland (N. of 76° N. Lat.) collected by the "Danmark-expedition" 1906-08. *Meddelelser om Grönland* **43**: 137-145. *pl.* 9. 1910.
Includes *Calvatia arctica* Ferdinandsen & Winge sp. nov.
- Floyd, B. F., & Stevens, H. E.** Melanose and stem-end rot. *Univ. Florida Agr. Exp. Sta. Bull.* 111: 3-16. *f.* 1-9. D 1912.
- Forbes, S. A., & Richardson, R. E.** Studies on the biology of the upper Illinois River. *Bull. Illinois State Lab. Nat. Hist.* **9**: 481-574. *pl.* 65-85. Je 1913.

- Galløe, O.** Lichens from northeast Greenland (N. of 76° N. Lat.) collected by the "Danmark-expedition" 1906-08. Meddelelser om Grönland **43**: 183-191. 1910.
- Galløe, O.** *Saxifragaceae* 2. The biological leaf-anatomy of arctic species of *Saxifraga*. Meddelelser om Grönland **36**: 239-294. f. 1-29. 1910.
- Gleason, H. A.** The relation of forest distribution and prairie fires in the middle West. Torrey **13**: 173-181. Au 1913.
- Gow, J. E.** Observations on the morphology of the aroids. Bot. Gaz. **56**: 127-142. f. 1-47. 14 Au 1913.
- Hamet, R.** *Sedum Carnegiei*, a new species of the family *Crassulaceae* from the herbarium of the Carnegie Museum. Ann. Carnegie Mus. **8**: 418-420. Mr 1913.
- Harper, R. M.** A botanical cross-section of northern Mississippi, with notes on the influence of soil on vegetation. Bull. Torrey Club **40**: 377-399. pl. 21, 22. Au 1913.
- Harris, J. A.** Note on the alpine dwarfing of *Polygonum Bistorta*. Torrey **13**: 182-184. f. 1. Au 1913.
- Harris, J. A.** On the relationship between the number of ovules formed and the capacity of the ovary for maturing its ovules into seeds. Bull. Torrey Club **40**: 447-455. f. 1, 2. Au 1913.
- Hassler, E.** *Apocynaceae*. [In Ex herbario Hassleriano: Novitates paraguarienses XVIII.] Repert. Sp. Nov. **12**: 257-264. 20 Jl 1913.
Includes *Aspidiosperma Rojasii* and *A. Quirandy* Hassler, spp. nov. and several new varieties of the latter species.
- Hassler, E.** *Malvaceae*. [In Ex herbario Hassleriano: Novitates paraguarienses XVIII.] Repert. Sp. Nov. **12**: 264-269. 20 Jl 1913.
Includes *Malvastrum guaraniticum*, *Sida rupicola*, and *S. margaritensis* spp. nov.
- Hassler, E.** *Oenotheraceae*—II. [In Ex herbario Hassleriano: Novitates paraguarienses XVIII.] Repert. Sp. Nov. **12**: 269-278. 20 Jl 1913.
Includes 54 new varieties, forms, or subspecies.
- Hayden, A.** An ecological study of a prairie province in central Iowa. Proc. Iowa Acad. Sci. **18**: 55, 56. 1911.
An abstract.
- Heald, F. D., & Studhalter, R. A.** Preliminary note on birds as carriers of the chestnut blight fungus. Science II. **38**: 278-280. 22 Au 1913.
- Hesselbo, A.** Mosses from northeast Greenland (N. of 76° N. Lat.)

collected by the "Danmark-expedition" 1906-08. Meddelelser om Grönland **43**: 171-180. *pl.* 11, 12. 1910.

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Hitchcock, A. S. Mexican grasses in the United States National Herbarium. Contr. U. S. Nat. Herb. **17**: 181-389+vii-xiv. 15 Jl 1913.

Includes 23 new species in *Andropogon* (2), *Aristida* (2), *Campulosus* (4), *Deschampsia* (1), *Lasiacis* (1), *Melica* (1), *Muhlenbergia* (1), *Paspalum* (3), *Poa* (4), *Seniles* (1), *Sorghastrum* (1), *Sporobolus* (1), *Syntherisma* (1), *Trisetum* (1), *Trinochloa* (1), and *Tristachya* (1).

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Includes *Ascospora graminis*, *Hendersonia gigantea*, *Coniothyrium Lesquerellae*, and *Pyrenophora filicina*, spp. nov.

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Includes new species as follows: *Podopterus emarginatus* H. Gross, *Coccoloba oaxacensis* H. Gross, *Pisonia linearibracteata* Heimerl, *Heliocarpus Caeciliae* Loes., *Abutilon Selerianum* Ulbrich, *Sphaeralcea Endlichii* Ulbrich, *Hauya Donnellsmithii* Loes., *H. longicornuta* Loes., *Xylopleurum deserticolum* Loes., and *Cordia Langlassei* Loes.
- Macallum, A. B.** Surface tension and vital phenomena. Univ. Toronto Stud. Physiol. **8**: 3-82. *pl. 1*. 1912.
Republished in English in revised form from an article "Oberflächenspannung und Lebenserscheinungen," in vol. **11**, Ergebnisse der Physiologie.
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- Machbride, T. H.** Notes on Iowa saprophytes. Proc. Iowa Acad. Sci. **18**: 57-60. 1911.
- Marie-Victorin, —.** Découverte du Lycopode petit-cypres dans les Laurentides. Naturaliste Canadien **39**: 166-170. My 1913.
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- Melhus, I. E.** The powdery scab of potato (*Spongospora Solani*) in Maine. Science II. **38**: 133. 25 Jl 1913.
- Merrill, G. K.** New and interesting lichens from the state of Washington. Bryologist **16**: 56-59. Jl 1913.
Includes *Bialora myriocarpella* sp. nov.
- Meyer, R.** Einiges über *Echinocactus longihamatus* Gal. und seine Varietäten. Monats. Kakteenk. **23**: 91-93. 15 Je 1913.
- Meyer, R.** Über *Echinocactus haematacanthus* Monv. Monats. Kakteenk. **23**: 94-96. 15 Je 1913.
- Mickleborough, J.** A report on the chestnut tree blight, the fungus, *Diaporthe parasitica* Murrill. 1-16. *f. 1-4*. Harrisburg. My 1909. [Illust.]
Pennsylvania Department of Forestry.
- Miller, F. A.** Breeding medicinal plants. Am. Jour. Pharm. **85**: 291-301. *f. 1-4*. Jl 1913.
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- Nichols, G. E.** Summer evaporation intensity as a determining factor in the distribution of vegetation in Connecticut. *Bot. Gaz.* **56**: 143-152. 14 Au 1913.
- Orton, W. A.** The development of disease-resistant varieties of plants. IV^e. Conférence Internat. Génétique, Paris **1911**: 247-265. *f.* 1-9. 1913.
- Ostenfeld, C. H.** Marine plankton from the East-Greenland Sea (W. of 6° W. Long. and N. of 73° 30' N. Lat.), collected by the "Danmark-expedition" 1906-1908—I. List of diatoms and flagellates. *Meddelelser om Grönland* **43**: 259-285. *f.* 1-11. 1910.
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- Pammel, E. C., & Clark, C.** Studies in variation of red clover. *Proc. Iowa Acad. Sci.* **18**: 47-54. 1911. [Illust.]
- Pammel, L. H.** Some fungus diseases of trees. *Proc. Iowa Acad. Sci.* **18**: 25-33. 1911. [Illust.]
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- Pennell, F. W.** Studies in the *Agalinanae*, a subtribe of the *Rhinanthaceae*. *Bull. Torrey Club* **40**: 401-439. Au 1913.
Includes descriptions of 5 new species.
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- Quehl, L.** Allerlei aus dem Kakteenkasten. *Monats. Kakteenk.* **23**: 93, 94. 15 Je 1913.
- Reimer, F. C., & Detjen, L. R.** Self-fertility of the scuppernong and other muscardine grapes. *North Carolina Agr. Exp. Sta. Bull.* **209**: 5-23. *f.* 1-13. S 1910.
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A plant from Colombia, South America.

- Saxton, W. T.** The classification of conifers. *New Phytologist* **12**: 242-262. *f. 1.* 26 Jl 1913.
- Selby, A. D.** A brief hand-book of the diseases of cultivated plants in Ohio. *Bull. Ohio Agr. Exp. Sta.* **214**: 307-456 + i-vii. *f. 1-106.* Mr 1910.
- Shannon, C. W.** The trees and shrubs of Oklahoma. *Oklahoma Geol. Surv. Circ.* **4**: 1-41. Mr 1913. [Illust.]
- Shear, C. L., & Stevens, N. E.** The chestnut-blight parasite (*Endothia parasitica*) from China. *Science* **11**: 38: 295-297. 29 Au 1913.
- Simon, C. E., & Wood, M. A.** On the inhibitory action of certain anilin dyes upon bacterial development. *Proc. Soc. Exp. Biol. & Medicine* **10**: 176-178. 21 My 1913.
- Smith, J. D.** Undescribed plants from Guatemala and other Central American republics. *Bot. Gaz.* **56**: 51-62. 16 Jl 1913.
Twenty new species are described.
- Smith, J. D., & Rose, J. N.** A monograph of the *Haueyae* and *Gongylocarpeae*, tribes of the *Onagraceae*. *Contr. U. S. Nat. Herb.* **16**: 287-298. *f. 45-54.* 23 Au 1913.
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- Stout, A. B.** Tomato-nightshade chimeras. *Jour. N. Y. Bot. Gard.* **14**: 145-150. *pl. 121.* Au 1913.
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- Swingle, W. T.** *Chaetospermum*, a new genus of hard-shelled citrous fruits. *Jour. Washington Acad. Sci.* **3**: 100-102. *f. 1.* 19 F 1913.
- Swingle, W. T.** Le genre *Balsamocitrus* et un nouveau genre voisin, *Aeglopsis*. *Bull. Soc. Bot. France* **58**: (Mém.) 225-245. *pl. 1-5 + f. A, B.* Mr 1912.
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- Swingle, W. T.** Observations sur les quelques espèces indo-chinoises des genres *Atalantia* et *Glycosmis*. *Notulae Syst.* **2**: 158-163. *f. 1.* 25 Mr 1912.
- Swingle, W. T.** Variation in first generation hybrids (imperfect dominance): its possible explanation through zygotaxis. IV. *Conférence Interna. Génétique, Paris 1911*: 581-594. *f. 1-10.* 1913.